STATE OF UTAH
NATURAL RESOURCES
Water Rights

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dee C. Hansen, State Engineer

1636 West North Temple • Salt Lake City, UT 84116 • 801-533-6071

* M E M O R A N D U M *

TO: File
FROM: Richard B. Hall, P. E., Distribution Engineer
SUBJECT: Field Review of the Santa Clara River Distribution System
DATE: November 10, 1984

A field review of the subject system was undertaken on November 8,1984, with the following in attendance.

Rodney Leavitt Jerry L. Bronicel
Richard B. Hall

The following items were observed and/or discussed:

1) Bloomington Ditch - This is the last diversion on the system. They have recently installed a new non-pressurized pipeline, which goes from the diversion point to some holding ponds, which are pumped to water the golf course. Their right is for 4 cfs and they have no measuring device. It may be possible to come up with a calibration curve for the pipeline in lieu of a measuring device.

2) Seep Ditch - The compay has a right made up of return flows for 3.5 cfs. They have purchased a flume but have not yet installed it.

3) St. George-Santa Clara Field Ditch - They have a right for 13.3 cfs, which is measured by a 3-foot Parshall Flume. The approach velocities seem somewhat high.

4) Santa Clara Ditches - The following three ditchs have a right for 7.7 cfs total.

   A) Santa Clara Town Ditch - Measured by a 3-foot Parshall Flume, which is satisfactory.

   B) Santa Clara South Ditch - Measured by a 3-foot Parshall Flume, which appears satisfactory.

   C) Santa Clara Three Mile Ditch - Measured by a 2-foot Parshall Fume, which is satisfactory.

5) Ivins Bench - Owned by Ivins Canal and Reservoir Co. - They have an agreement with wildlife resources to leave the reservoir full and receive their water from Gunlock instead.

6) Windsor Dam - The dam diverts 1.38 cfs to the Shivwits Indians, which is measured by a 1-foot metal Parshall Flume. The dam also delivers a high flow right of 30 cfs to the Ivins Bench Co., which is measured by a 2-foot Parshall Fume.

7) Ed Bowler Ditch - (Not Observed) - This ditch diverts part of the Gunlock Right and is measured by a 2-foot Parshall Flume.

8) Gunlock Reservoir - Discharges are measured by a 4-foot concrete Parshall Flume, which needs cleaning upstream to reduce approach velocities.

9) UP&L #1 Plant above Gunlock Reservoir - Diverts water from upper canal and returns it to the Santa Clara River through a 3-foot Parshall flume, which is adequate.

10) Gunlock Town Ditch - Has a right for 1.0 cfs, which is not measured; however, flow is limited by a 8-10-inch pipe.

11) Pine Valley Town Ditch - Has an adequate Parshall Flume.

12) Pine Valley North Ditch - (Not Observed) - Reported to have an adequate Parshall Flume.

13) Central Irrigation Ditch - Has a right to divert 2.25 cfs, which is measured by a 2-foot Parshall Flume, which appears to be submerged from downstream moss growth.

14) Baker Reservoir - Discharges are measured by a 3-foot Parshall Flume, which is operating satisfactorily.

17) UP&L Company Ditch around Baker Reservoir - Has a right for 25 cfs measured by a 3-foot metal Parshall Flume, which is operating satisfactorily.

18) Veyo Ditch - Has a right for 1 cfs, which is measured by a 3-foot Parshall Flume operating satisfactorily

cc: Jerry L. Bronicel